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University of Northern Iowa Faculty Senate Meeting Minutes, April 8, 1991

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FACULTY SENATE

APRIL 8, 1991

1437

ANNOUNCEMENTS

1. Senate Minutes 1436 should be dated March 11, 1991, instead of February 11, 1991.
2. Comments from Provost Marlin.
3. The Chair announced the awarding of Professor Emeritus status to Verna Ritchie - Library.

CALENDAR

4. 505 Recommendation from CNS Senate to Increase Science Entrance Requirement to Three Years. See Appendix A. Docketed in regular order. Docket 440.
5. 506 Recommendation from the CNS Senate to Approve Separation of Mathematics and Computer Science into Two Separate Departments. See Appendix B. Docketed in regular order. Docket 441.
6. 507 Recommendation from the COE Senate to Merge the Departments of Library Science and Curriculum and Instruction. See Appendix C. Docketed in regular order. Docket 442.

NEW/OLD BUSINESS

7. Approved motion to seek additional nominees to serve on the Select Ad Hoc Committee to Establish Procedures for the Regents' Outstanding Faculty Awardees. Current nominees include Lucille Lettow - Library, and David Walker - History and Graduate College. The committee will be composed of three members.
8. Professor Russ Campbell - Mathematics and Computer Science was appointed to serve as the Senate's appointee to the Liaison/Advisory Committee to the Department of Military Science.
9. The Chair appointed Senators Crownfield, Quirk and Duncan to serve on the Nominating Committee for Senate Officers.

The Faculty Senate was called to order at 3:30 p.m. in the Board Room of Gilchrist Hall, by Chairperson Longnecker.

Present: Leander Brown, Phyllis Conklin, David Crownfield, David Duncan, Reginald Green, Randall Krieg, John Longnecker, Barbara Lounsberry, Charles Quirk, Ernest Raiklin, Ron Roberts, Nick Tieg, Patrick Wilkinson

Alternates: Margaret Ishler/Roger Kueter

Absent: Robert Decker, Bill Henderson, Erwin Richter, Marc Yoder

ANNOUNCEMENTS

1. Senate Minutes 1436 should be dated March 11, 1991, instead of February 11, 1991.
2. Comments from Provost Marlin.

Provost Marlin commented on the NCA team visit to UNI. She expressed her appreciation to the many individuals who adjusted their schedules to meet with the NCA team. We will receive a draft report but she wanted to share information from the exit interview comments with the Senate. She stated the team identified as a major strength the consensus on the centrality of teaching. The team reported the physical plant of the institution is excellent, including campus planning, buildings, grounds, and physical appearance. The team reported support of the academic mission of the institution by other divisions of the institution.

Marlin indicated that the team was concerned there was not enough progress in the area of affirmative action. In addition, the team indicated that the mission of the institution as printed does not seem to reflect the mission of the institution as heard by the individuals visiting with the team. There were also concerns about equipment budgets and support levels. The team was also critical of the quality and quantity of faculty research in support of graduate education. The team also reported certain older buildings still have limited access for handicapped individuals.

The team suggested more attention should be given to the quality of theses and dissertations. The team suggested the faculty should take greater efforts in seeking external funding. The team also voiced concern about the lack of diversity of the institution as well as inconsistencies in providing data for institutional research.

Marlin stated the bottom line is UNI will be reaccredited for ten years, but that followup reports may well be needed.

Senator Lounsberry, inquiring about the research concern, asked if this was relative to both the master's and doctoral levels. Provost Marlin responded in the affirmative.

but that this finding surprised her as she has been impressed by the M.A. theses created by UNI students. Senator Lounsberry inquired if they evaluated student theses vs. the research done by faculty. Provost Marlin stated she wasn't sure of their research method other than they reviewed master theses and doctoral dissertations and reviewed the level of external funding, and will need to see the final report to understand how they arrived at these conclusions.

The Chair asked the Provost the status of legislative action.

The Provost stated there continues to be a lack of leadership or emergency consensus about the budget. There is a possibility of an additional reversion to the State, which, given where we are in the fiscal year, would require that we defer paying bills until the next fiscal year. She stated it remains difficult to estimate the outcomes of potential legislative action.

3. The Chair announced the awarding of Professor Emeritus status to Verna Ritchie of the Library.

CALENDAR

4. 505 Recommendation from CNS Senate to Increase Science Entrance Requirement to Three Years. See Appendix A.

Tieg moved, Green seconded, to docket in regular order.

Crownfield stated when admission requirements were previously discussed in the fall, this was one component and asked if other issues raised at that time were being discussed.

The Chair responded in the negative. Senator Crownfield inquired if we should act in consort with proposals of a similar context. The Chair responded he knows of no proposals forthcoming.

Question on the motion was called. Motion passed. Docket 440.

5. 506 Recommendation from the CNS Senate to Approve Separation of Mathematics and Computer Science into Two Separate Departments. See Appendix B.

Crownfield moved, Tieg seconded, to docket in regular order. Motion passed. Docket 441.

6. 507 Recommendation from the COE Senate to Merge the Departments of Library Science and Curriculum and Instruction. See Appendix C.

Crownfield inquired if this recommendation comes with the support of all departments involved.

Senator Ishler stated this proposal comes forth with the support of the Department of Curriculum and Instruction and the College of Education Senate. Professor Elizabeth Martin stated it does not have the support of the Library Science Department.

Senator Ishler discussed the process involved. She stated discussions have occurred since last fall since the Dean of the College of Education suggested this proposal. She stated the Departments of C&I and Library Science met and discussed their concerns and met with area coordinators to discuss this proposal. The item then went to C&I area coordinators, and on to the C&I Department at large. At that point the proposal then went to the College of Education Senate.

Senator Quirk stated the College of Education Senate passed this proposal by the narrowest of margins. Senator Ishler stated the vote in the College of Education Senate was six to four, while there was unanimous support in the Department of Curriculum and Instruction. It was pointed out there was unanimous opposition in the Department of Library Science.

Question on the motion was called. Motion passed. Docket 442.

NEW/OLD BUSINESS

7. Select Ad Hoc Committee to Establish Procedures for the Regents Outstanding Faculty Awardees.

The Chair indicated he had received nominations for Lucille Lettow from the Library and David Walker from the Department of History and the Graduate College.

Senator Crownfield suggested we find an individual from the faculty would be a representative of undergraduate and General Education teaching.

The Chair inquired as to how to proceed. Senator Quirk suggested that there exists an ad hoc leadership group in Humanities, and they may be approached for suggestions. He indicated the Chair of this group is Professor Roy Sandstrom.

Senator Crownfield suggested we hold open this discussion for additional nominations.

Crownfield moved, Brown seconded, to delay action until additional nominees may be presented and encouraged the Chair to continue to receive nominations from all sources.

Question on the motion was called. Motion passed.

8. Select Liaison to be liaison on Advisory Committee to the Department of Military Science.

The Chair indicated that Professor Russ Campbell from the Department of Mathematics and Computer Science had volunteered for this position.

Duncan moved, Tieg seconded, the appointment of Professor Russ Campbell. Motion passed.

9. The Chair indicated he has appointed the following Senators to serve on the Nominating Committee for Senate officers: David Crownfield, David Duncan, Charles Quirk.

Senator Crownfield inquired if the recommendations should be made at the next Senate meeting. The Chair responded in the affirmative, stating there was no guarantee of a Senate meeting after April 22.

Senator Crownfield encouraged interested Senators to make their availability known.

The Chair ruled, there being no further business, the Senate stood adjourned. The Senate adjourned at 3:55 p.m.

Respectfully submitted,

Philip L. Patton
Secretary

These minutes shall stand approved as published unless corrections or protests are filed with the Secretary of the Senate within two weeks of this date, April 12, 1991.



25 March 1991

TO: John Longnecker
Chair, Faculty Senate

FROM: Diane Baum
Chair, CNS Senate

As a result of reviewing and discussing the current high school subject matter requirements for admission to the University of Northern Iowa (see page 13 of 1990-92 UNI Catalog), the College of Natural Sciences directed me to forward to the University Senate for consideration and action the following motion passed by the CNS Senate on March 15, 1991:

"The CNS Senate requests that on page 13 of the University Catalog under 'Requirement for Admission, under Science,' that Science 2 years be changed to Science 3 years effective Fall 1995."

Rationale:

It is widely recognized today that the U.S. citizenry is among the most undereducated and least sophisticated in science anywhere in the industrialized world. The rationale for adopting this motion is based on the strong conviction that high school students need to be exposed to at least three years of science at the 9-12 levels if they are to be adequately prepared to master college-level science courses and to graduate from college as scientifically literate citizens equipped to live and work in an increasingly scientific and technological world.

cc: Nancy Marlin, Provost
Gerald Intemann, Dean



Interdepartmental Communication

April 3, 1991

TO: John Longnecker, Chair
University Senate

FROM: Diane Baum, Chair
CNS Senate

As a result of discussing the Mathematics and Computer Sciences Department's request that a separate department for Computer Sciences be formed, the CNS Senate is forwarding to the University Senate for consideration and action the following motion that was favorably passed at the CNS Senate on March 29, 1991:

"The College of Natural Sciences Senate approves the proposal to split the Department of Mathematics and Computer Science into two separate departments, the Department of Mathematics and the Department of Computer Sciences."

1s



April 1, 1991

John C. Longnecker
Chair, Faculty Senate
Department of Math/Computer Science
Baker 147 0441

Dear Professor Longnecker:

Dean Beverley Byers-Pevitts submitted the letter from Diane Baum of 25 March to you for discussion at the CHFA Senate meeting of today.

The Senate was against the CNS Senate proposal on numerous grounds:

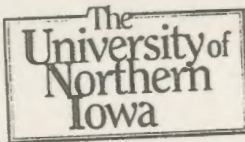
1. First, the CHFA Senate questioned the very premise of the rationale statement; namely, "it is widely recognized today that the U.S. citizenry is among the most undereducated and least sophisticated in science anywhere in the industrialized world."
2. The CHFA Senate suggests that a five year study be made to allow for the accommodating changes in the High School and Community College curricula as a result of our new General Education Program and Entrance Requirements (including the foreign language component).
3. The CHFA Senate fears that students would be excluded who did not complete these proposed increased requirements in High School (or Community College), but who might blossom in these (or other) areas in the University setting.
4. The CHFA Senate is concerned that if CHFA and other Colleges requested additional demands that the requirements would be too proscriptive in terms of admission standards.
5. The CHFA Senate is also concerned that an increased demand in science imposed on all incoming students would work against the very mission of the University -- liberal arts.
6. Finally, as the premier undergraduate college within the state, the CHFA Senate feels that there is no reason to revise our program to emulate/be consistent with those at The University of Iowa or Iowa State University.

Sincerely,

Charles M. Adelman
Charles M. Adelman
Chair, CHFA Senate

c: Nancy Marlin, Provost
Beverley Byers-Pevitts, Dean

College of Humanities and Fine Arts
CHFA Senate 269 Communication Arts Center Cedar Falls, Iowa 50614-0358 Telephone: (319) 273-2725



TO: John Longnecker,
Chair, Faculty Senate
FROM: Philip East *Philp*
SUBJ.: Proposal for forming separate Department of Computer Sciences
DATE: April 2, 1991

Attached is a proposal to form a separate department for computer science. It is my understanding that the College and University Senates must ratify such proposals before they can be submitted to the administration and through them to the Interinstitutional Committee and the Regents.

The Senate of the College of Natural Sciences considered and endorsed the proposal at their meeting on March 29. I am now submitting the proposal for consideration by the Senate of the University Faculty. We would appreciate the Senate's action on this matter as soon as is reasonable. Please let us know when you expect the Senate will be considering the proposal and if there are any additional activities to which we should be attending.

Thank you.

A Proposal to Establish a
Department of Computer Sciences
at
The University of Northern Iowa

Background

In 1972, after several years of teaching courses in computing, the Mathematics Department officially instituted a computational mathematics emphasis. This program was expanded by the establishment of a computer science emphasis in 1976. In 1981 a separate program in computer science was established and the department became Mathematics and Computer Science. The number of majors in computer science was quite large at the inception of the program, soon exceeded 400, and has now fallen to and leveled off at about 200. The original program in computer science was well-designed and reflected both latest thought and keen insight into computer science program design. One position in the department was filled by a faculty member with the terminal degree in computing.

The Department currently has three separate components—mathematics, mathematics education, and computer science—each of which operates somewhat autonomously but with supervision/influence from the department head. Mathematics has 15 lines; mathematics education, 7; and computer science, 8. There is also a line for a new department head. About a third of the math group are active in scholarship involving publishing. Most of the mathematics education group are so involved. Perhaps a third of the computer science group publish, but in the area of computer science education rather than computer science. The Department is considered to have very good teachers.

Departmental resources have generally been allocated according to individual differences rather than group differences. The one exception is that the majority/bulk of equipment money has gone to the computer science group. It is not, however, perceived that the other groups have been shortchanged relative to equipment money.

In 1988, David Duncan indicated his desire to step down as department head. The issue of splitting the Department came up at that time. Both Dr. Duncan and Dean Saigo felt the timing was not appropriate for splitting the Department. (Dr. Duncan now believes forming a separate department is appropriate and should occur sooner rather than later.) The issue has now resurfaced, due in large measure to an openness to doing so on the part of Dean Gerald Intemann and Provost Nancy Marlin. The Department of Mathematics and Computer Science, therefore, proposes that a separate Department of Computer Sciences be formed as quickly as is reasonable.

March 2, 1991

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APPENDIX B

Rationale

A number of reasons exist for forming a separate department for computer science. The major ones relate to leadership and faculty recruitment and retention. A number of lesser reasons also exist for forming a new department of computer sciences.

General Leadership. The computer science group has eight members, one in his fourth year of leave and another on phased retirement. Only one of the group has a Ph.D. in computer science. While two others have doctorates, their areas are mathematics and computer science education. Four of the faculty possess masters degrees in computer science. For a variety of reasons, primarily lack of senior computer scientists and departmental structure (a department can't have 2-3 heads) the computer science group has not had sufficient leadership. We expect the only way to achieve the necessary leadership in the foreseeable future is to form a separate department and hire a senior computer scientist as department head. This is the strongest, and perhaps only necessary, justification for forming a separate department.

Curricular Leadership. The curriculum of the computer science group has for various reasons been essentially stable since it was first put in place in 1981. This curriculum requires revision to bring it into line with the latest thinking and to broaden its offerings. Currently there are only five upper division electives in computer science. A number of important topics in computer science are totally missing from the curriculum (e.g., artificial intelligence, computer communication networks, computer graphics, computer security, parallel and distributed computing, theory of computation). A senior computer scientist exerting the influence of department head would provide critical leadership in curriculum revision.

Scholarship Leadership. A department head with good scholarship habits is needed to encourage (through experience, example, and actual assistance) the development of greater scholarship within the computer science group. A department head whose specialty is in mathematics would not be nearly as able to accomplish this task.

Faculty Recruitment and Retention. The Department has, for a number of years, tried unsuccessfully to hire new computer science faculty at the doctoral level. Anecdotal evidence suggests a major contributing factor to this dilemma is the lack of a separate department. Certainly our experience in hiring at the masters level and encouraging and assisting those people to complete the terminal degree and return has to date been totally unsuccessful.

March 2, 1991

p. 2

Department Size. The Department of Mathematics and Computer Science now has 30 tenure track faculty; about 7 FTE in temporary faculty; and over 100 course sections per semester. While there are a number of larger departments on campus, the management of Mathematics and Computer Science is a significant task leaving little time for planning/leadership related to faculty development or curriculum revision and little time for getting to know individual faculty member's interests, strengths, weaknesses, needs, and quirks. Forming two departments will make these tasks more manageable. An additional size factor is the number of majors in the department. Mathematics has over 230 majors and computer science has slightly under 200. Again, while this number is not the largest on campus, it is the largest in the College and either group alone would still have more majors than many other departments. Certainly there would be sufficient numbers of majors to support separate departments.

In general, it is expected that separate leaders for both these areas (computer science and mathematics) will result in stronger programs and faculty in each. A stronger mathematics group/department and a stronger computer science group/department would then exist. Such stronger programs would be good for each of them, for each in relation to the other, and for the College and University as a whole. Additionally, it seems reasonable to assume that strengthening both programs under a single organizational umbrella will be difficult at best and more likely impossible.

Potential Problems

There are, of course, some potentially negative aspects of forming a separate computer sciences department.

Cost. The cost of forming a new department should be limited to that required to staff and equip the departmental office. Two additional personnel are needed—a department head and a secretary. The cost for these personnel is likely to be approximately \$100,000 plus fringe benefits. Necessary office equipment is likely to be limited to a typewriter and two computers in addition to the desks, shelving, files, etc. that should be supplied with the office. It is expected that supplies cost would not be significantly greater than a prorated portion of the current S & S budget.

Political Strength. As the largest department in the College, Mathematics and Computer Science has the most political power owing to sheer numbers when voting. This power will be diminished in separate departments. While this would be a loss for the Department, it might well be a gain for the College.

March 2, 1991

p. 3

Faculty Interaction. There may be a slight decrease of communication between individuals in different areas of the department but this should be very minimal. The two faculties will be housed in the same floor of the same building and share lounge facilities. Given the current housing of departmental faculty, there may actually be an increase in this type of interaction.

Negative aspects, with the possible exception of cost, are clearly minor. Regarding cost, we believe the proposal allows the College and University to build upon and expand existing quality programs for students and the state of Iowa, and therefore, would be worth the expense involved.

Summary

The computer science program within the Department of Mathematics and Computer Science is of a sufficient size (faculty and students) to merit departmental status. Departmental status is seen as necessary for further development of the program and in the hiring of permanent faculty with the terminal degree. Positive effects of a separate department clearly outweigh the negative. The mathematics and mathematics education faculty as well as the computer science faculty have, without dissent, determined to put forth this proposal. Such a move will enhance the Department, the College, and the University.



April 1, 1991

Dr. John Longnecker, Chair
University Faculty Senate
147 Baker - 0506

Dear John:

Enclosed please find a copy of a motion that was passed by the College of Education Senate on March 25, 1991. Since the results of the motion may cause a substantial change of departmental status and has considerable impact on faculty and on our senate composition, I understand it the next step in the process is to forward the motion, the results of the motion and a letter requesting that you docket the request for consideration. Thus, I am requesting that you docket this item for consideration. If it is possible, the Dean of the College of Education is requesting that this motion be considered before the end of the academic year.

Thank you for considering the request. I will look forward to hearing from you.

Sincerely yours,

Donna Thompson

Donna Thompson
Associate Professor
and
Chair, College of Education Senate

DT:llg
encl

School of Health, Physical Education and Leisure Services
203 East Gymnasium Cedar Falls, Iowa 50614-0161 (319) 273-2654 FAX: (319) 273-6997



3/25/91

I move that the Department of Library Science be merged into the Department of Curriculum and Instruction per the request of Dean Switzer with the following ~~stipulations~~ ^{recommendations} ~~necessary~~ to ensure the survival of the Library Science Program:

- 1) that the program have division status with the right to use the term "Division of Library Science" on all correspondence and publications;
- 2) that there be a minimum of two tenure-track faculty lines assigned to library science;
- 3) that the Division retains the prerogative to recommend students for graduate assistantships;
- 4) that the Department of Curriculum and Instruction make adequate provision for clerical assistance for the Division;
- 5) that the Division of Library Science be given written assurances by the Dean and the Head of Curriculum and Instruction of Division decision-making responsibilities about budget, external funding, policy, and curricular matters.

Motion made by McLumsey; seconded by Becker. Motion passed: 6-yes, 4-no.

Department of Library Science
College of Education 121 Donald O. Rod Library Cedar Falls, Iowa 50614-0462 (319) 273-2050 FAX: (319) 273-6997

APPENDIX C